BRUHATH BANGALORE MAHANAGARA PALIKE

Rajarajeswarinagar Zone.

Name Of Works : Construction of basketball court and Alide park developments in sharadamda nagara in ward no 16

Est.Cost. Rs. 100 Lakhs

Job Code No.016-21-000001

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (P-6, I. No.2.3)								
	for single court		1	20.00	41.00	0.25	205.00	cum	
			1	15.00	19.00	0.25	71.25		
			1	75.00	17.00	0.25	318.75		
			1	60.00	15.00	0.25	225.00		
	for double court		1	29.50	17.00	0.50	250.75		
	Basic Rate	249.00							
	Add Loading and Unloading	57.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 6%	14.94							
		361.90							
		Cum			Total Qnty		**1070.75**	**361.90**	**387504.43**
2	KSRB 2-2.1 :Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.as per specifications. 2.3 KSRB 2-2.1: - do - in ordinary soil. No. KBS 2.1(a) / 2.3.5 (Page -6/ Item no.2.3)								
	for single court								
	For fencing		1	400.00	1.00	0.90	360.00		
	for footpath		1	385.00	1.80	0.15	103.95		
	for double court								
	For fencing		1	98.50	1.00	0.90	88.65		
	Basic Rate	299.00							
	Add Loading and Unloading	57.00							
	Add for lead for earth (1.28	40.96							
	Area Weightage @ 6%	17.94							
		414.90							
		Cum			Total Qnty		**552.60**	**414.90**	**229273.74**
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix **1:3:6 with OPC cement** @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 13/I.No. 4.2 (2018-19)								
	Bed Concrete								
	for single court								
	For fencing		1	400.00	1.00	0.10	40.00		
	for double court								
	For fencing		1	98.50	1.00	0.10	9.85		
	Basic Rate	5194.00							
	Area Weightage @ 6%	311.64							
		5505.64							
		Cum			Total Qnty		**49.85**	**5505.64**	**274456.15**

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
	KSRB 5.2-3 : Providing and constructing **granite / trap / basalt size stone masonry** in **foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 P.No. 25								
4	**Foundation**	cum							
	for single court								
	For fencing		1	400.00	0.75	0.60	180.00		
	for double court								
	For fencing		1	98.50	0.75	0.60	44.33		
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
		4871.76							
					Total Qnty		**224.33**	**4871.76**	**1092857.56**
	KSRB 5.3-3 : Providing and constructing **granite / trap / basalt size stone** masonry in **basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 P.No. 25								
	Basement for single court	Cum							
5	For fencing		1	400.00	0.45	0.40	72.00		
	for double court								
	For fencing		1	98.50	0.45	2.00	88.65		
	Basic Rate	5483.00							
	Area Weightage @ 6%	328.98							
		5811.98							
					Total Qnty		**160.65**	**5811.98**	**933694.59**
	KSRB 4-1.6 :Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications. Specification No. KBS 4.1, 4.2 P.No. 13								
	Basement	cum							
6	for single court								
	For fencing		1	400.00	0.45	0.10	18.00		
	for double court								
	For fencing		1	98.50	0.45	0.10	4.43		
	Basic Rate	5422.00							
	Area Weightage @ 6%	325.32							
		5747.32							
					Total Qnty		**22.43**	**5747.32**	**128926.76**
	KSRB 15.1.1 Providing **flush pointing to square rubble**, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. P.No. 115								
	Pointing	sqm							
	for single court								
7	For fencing		2	400.00		0.40	320.00		
	for double court								
	For fencing		2	98.50		2.00	394.00		
	Basic Rate	141.00							
	Area Weightage @ 6%	8.46							
		149.46							
					Total Qnty		**714.00**	**149.46**	**106714.44**

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
8	Providing and fixing pre cast **solid concrete kerb stones** of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. 5.29.2/ PWD SR 2018-19								
	New Kerbs	nos							
	for single court								
	Park footpath		2	382.00			764.00		
							764.00		
							1697.78		
			No Of Kerbs						
	Basic Rate	441.00							
	Area Weightage @ 6%	26.46							
		467.46							
					Total Qnty		**1697.78**	**467.46**	**793643.20**
9	KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19								
	New Kerbs	sqm							
	for single court								
	Park footpath		2	382.00	0.40		305.60		
	Basic Rate	80.00							
	Area Weightage @ 6%	4.80							
		84.80							
					Total Qnty		**305.60**	**84.80**	**25914.88**
10	KSRB 14.6-1: Providing and laying **heavy duty cobble stones 75mm** thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.Specification No. KBS (Page No-103).I.No 14.7 P.No 103								
	New Cobble Stone	sqm							
	for single court								
			1	382.00	1.80		687.60		
	for double court								
			1	24.60	7.00		172.20		
	Basic Rate	1110.00							
	Area Weightage @ 6%	66.60							
		1176.60							
					Total Qnty		**859.80**	**1176.60**	**1011640.68**
11	KSRRB M300- 2.1. Grassing with **Doobs grass** including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for moving including upplying good earth if needed complete as per specifications. MORTH Specification No. 307 i) In rows 15 cm apart in either direction. pg no 148								
	Grass	sqm							
	for single court and Park								
			1	20.00	41.00		820.00		
			1	15.00	19.00		285.00		
			1	75.00	17.00		1275.00		
			1	60.00	15.00		900.00		
							3280.00		
	Deduction of plants 40% of total area						1312.00		
	Basic Rate	46.00							
	Area Weightage @ 6%	2.76							
		48.76							
					Total Qnty		**1968.00**	**48.76**	**95959.68**

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
12	Providing and fixing **M.S. Gate as per** Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation. (Page No- 45).I.No7.37								
	for single court								
			1	2.00		1.80	3.60	Sqm	
	for double court								
			1	2.00		1.80	3.60		
	Basic Rate	3012.00							
	Area Weightage @ 6%	180.72							
		3192.72							
						Total Qnty	**7.20**	**3192.72**	**22987.58**
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) including cost of materials, labour, HOM complete as per specifications. KPWD S.R 2018-19 Page No. 266 I.No. 37.2								
	Chain Link Fencing	m							
	poles		**134**			**1.8**	241.20		
	deduction of gate		**1**	**2.00**		**1.80**	3.60		
							237.60		
	for double court								
	poles		**33**			**1.8**	59.40		
	deduction of gate		**1**	**2.00**		**1.80**	3.60		
							55.80		
							293.40	**910.54**	**267152.44**
	Basic Rate		859.00						
	Add area wt 6%		51.54						
	Total		910.54						
14	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications.KPWD S.R 2018-19 Page No. 266 I.No. 37.4								
	Chain Link	m							
	Support Pipes		2	137.00			274.00		
	deduction of gate		**1**	**2.00**		**1.80**	3.60		
							270.40		
	for double court		**2**	**99.00**			198.00		
	deduction of gate		**1**	**2.00**		**1.80**	3.60		
							194.40		
							464.80	**432.48**	**201016.70**
	Basic Rate		408.00						
	Add area wt 6%		24.48						
	Total		432.48						

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint, including cost of materials, labour, HOM complete as per specifications. .KPWD S.R 2018-19 Page No. 266 I.No. 37.3								
	Chain Link	**Sqm**							
	Fencing for single court		1	400.00		1.80	720.00		
15	**deduction of gate**		**1**	**2.00**		**1.80**	3.60		
							716.40		
	Fencing for double court		1	99.00		1.80	178.20		
	deduction of gate		**1**	**2.00**		**1.80**	3.60		
							174.60		
							891.00	**757.90**	**675288.90**
	Basic Rate		715.00						
	Add area wt 6%		42.90						
	Total		757.90						
16	Supplying and fixing polished **grey granite slab benches** of size 5 feet width of seating slab with bottom slab of 75mm th. with 1.5 feet width with two stands strong base with back slab (suport) machine cutting top slab mirror polish with 50 mm Th. with 1.5 feet depth side slab of 100 mm th. 2.5 feet height. including bull nosing of all edges, fixing in CC 1:2:4 including loading & unloading and with all lead and lift etc., complete and executing the work as per the direction of Engineer-in-charge of the work								
	Bench								
	for double court		**10**				**10**		
	for single court		20				20.00		
		nos				Total Qnty	**30.00**	**10500.00**	**315000.00**
17	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for …….Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm, top….mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. 10 meters - Top 70mm and bottom 175mm dia(4.2.8) pg no.13								
	poles								
		Nos	8				8.00		
						Total Qnty	**8.00**	**15713.00**	**125704.00**
18	Supplying & fixing LED Drivers suitable for 5700K LED fitting Outdoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply. 240W 5700K suitable for outdoor LED fitting. (13.52.9) Pg. no. 76								
	LED								
		Nos	8				8.00		
						Total Qnty	**8.00**	**8757.00**	**70056.00**

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
19	KSRRB M300-14. **Excavation for roadwork** in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19								
		Cum							
	for basketball double court		1	28.00	15.00	0.3	126.00		
	for basketball single court		1	14.00	15.00	0.3	63.00		
	for light poles		8	0.50	0.50	0.60	1.20		
							190.20	**84.42**	**16056.68**
	Basic Rate	41.00							
	Add for lead for earth (1.28 Tonne / Cum) for	40.96							
	Area Weightage @ 6%	2.46							
		84.42							
20	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19								
		Cum							
	for basketball double court		1	28.00	15.00	0.30	126.00		
	for basketball single court		1	14.00	15.00	0.30	63.00		
							189.00	**1994.92**	**377039.88**
	Basic Rate	1882.00							
	Area Weightage @ 6%	112.92							
	Total	**1994.92**							
21	KSRRB M600-1.Providing and Constructing **dry lean cement concrete** mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5-do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (P.No.174, I.No. 22.1.2 of PWD SR 2018-19)								
		Cum							
	for basketball double court		1.00	28.00	15.00	0.15	63.00		
	for basketball single court		1.00	14.00	15.00	0.15	31.50		
	for light poles		8.00	0.50	0.50	0.30	0.60		
							95.10	**3884.90**	**369453.99**
	Basic Rate	3665.00							
	Area Weightage @ 6%	219.90							
	Total	**3884.90**							

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
22	Constructing un-reinforced, plain **cement concrete for pavements** using Grade concrete **M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications.do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (P.No.175, I.No. 22.6.1 of PWD SR 2018-19)								
		Cum							
	for basketball double		1.00	28.00	15.00	0.15	63.00		
	for basketball single court		1.00	14.00	15.00	0.15	31.50		
	for light poles		8.00	0.50	0.50	0.30	0.60		
							95.10	**5210.96**	**495562.30**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
23	**Vaccum de-watering** with vaccum pump and suction mat and . compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. Pg;176 Item No 22.7 in SR 2018-19.								
		sqm							
	for basketball double court		1	28.00	15.00		420.00		
	for basketball single		1	14.00	15.00		210.00		
							630.00	**72.08**	**45410.40**
	Basic Rate	68.00							
	Area Weightage @ 6%	4.08							
	Total	**72.08**							
24	Basket ball marking with white paint in machine as per the drawing								
		sqm							
	for double court and single court		1				1.00		
							1.00	**50000.00**	**50000.00**
	Rate	50000.00							
	Total	**50000.00**							
25	Basket ball net and board with M S pole firmly fixed with concrete								
		sqm							
	for double court		2				2.00		
							2.00	**125000.00**	**250000.00**
	Rate	125000.00							
	Total	**125000.00**							

Sl	Descriptions	Unit	No	L	B	D	Qty.	Rate	Amount
	Storm Water Drain								
26	KSRRB M2300-9.2. Furnishing and Placing Reinforced / Prestressed cement concrete in super-structure as per drawing and Technical Specification M-40 grade complete as per specifications. E. PSC Grade M-40. Case - I : Using Concrete Mixer MORTH Specification No. 1500,1600 & 1700, Height up to 5 m (P-236, I.No.29.20.1)								
		Cum							
	Covering slab		1	5.00	3.50	0.3	5.25		
							5.25	**7496.32**	**39355.68**
	Basic Rate	7072.00							
	Area Weightage @ 6%	424.32							
	Total	**7496.32**							
27	KSRRB M2300-14. Supplying, fitting and placing TMT bar reinforcement in super-structure complete as per drawing and technical specifications complete as per specifications MORTH Specification No. 1600, TMT bars Fe 500 (Page No. 239, Item No. 29.29.2)								
	Steel	Tonn	5.25		65		341.25		
	apprx. 1 cum concrete = 65 kgs steel						0.34	73992.24	**25249.85**
	Basic Rate	69804.00							
	Area Weightage @ 6%	4188.24							
	Total	**73992.24**							
	Total								**8425920.51**
	Tender Premium 5%								**421296.03**
	Sub Total								**8847216.54**
	GST 12%								**1061665.98**
	Project Management Consultancy 1%								**88472.17**
	Miscellaneous								**2645.32**
	Total								**10000000.00**

CERTIFICATE:

1 The work spot have been inspected by me and work is found to be necessary.

2 The Estimate is based on the C.S.R. of PWD 2018-19.

3 The provisions were made in this estimate are adequete and essential

4 This works comes under BBMP Limits

Asst. Engineer
Ward No.16

Asst. Executive Engineer
Yeshwanthpura Sub Division
BBMP

Executive Engineer
R. R. Nagara Division
BBMP

ನಂ.: 243 ದಿನಾಂಕ: 26/2/2021

ರೂ. 1,00,00,000/- (One .....

.....crore only).....

ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ರಾಜರಾಜೇಶ್ವರಿ ನಗರ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-72

TECHNICAL SANCTION

Rs: 84259 20/- (Rs Eighty four lakhs twenty five thousand nine hundred twenty only) is accorded under the head: P-3075

By CE(R.R.N.) R-N. 10-11

Registered as CE (R.R.N) No. 356/20-21 subject to conditions contained in enclosed memo No: 356/20-21 Dt. 17/3/2021

TA

CE (R.R.N.)